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ADDITIONS TO THE MUSEUM.

December 1, 1880 to December 1, 1881.

Mammals.—Zoological Society of Philadelphia. *Hystrix cristata*, two *Myopotamus coypus*, portion of skin, eyes, tongue and viscera of young *Hippopotamus; Didelphys derbiana.*

Dr. H. C. Chapman. Stomach of *Hippopotamus*, stomach and generative organs of *Dicotyles.*

Dr. Jos. Leidy. Skeleton of *Hippopotamus amphibius* (young).

Birds.—Zoological Society of Philadelphia. *Rhamphastos toco, Brotogerys virescens, Astur Novæ-Hollandiæ, Melopsittacus undulatus, Aix galericulata, Scops asio, Chrysotis coccineifrons, Haliaster Indus, Numida vulturina.*

J. Kieff. *Dendrœca maculosa* and *D. cærulescens*, Montgomery County, Pa.

Theo. D. Rand. One egg each of swan and ostrich.

Colin F. Stam. Nest of *Trochilus colubris*, Chestertown, Md.

Chas. H. Townsend. Mounted specimen of *Numida vulturina.*

Crocodilia, Ophidians and *Fishes.*—J. C. Martindale. *Alligator mississippiensis* (young).

Zoological Society of Philadelphia. *Epicrates angulifer.*

U. S. National Museum. One hundred and sixteen species of fishes from the Pacific Coast of N. A.

R. M. Holbrook. *Coryphæna punctulata.*

Articulates.—Mr. Booth. *Streptocephalus* (sp.) Nevada.

T. R. Peale. *Bopyrus Manhattensis*, Red Bank, Monmouth Co., N. J.

Carlos J. Marsillan. Two species fire-flies, *Pyrophorus noctilucus* and *P. rusticus.*

J. A. Warder. *Camponotus Pennsylvanicus*, Ohio.

Dr. Edward Palmer. Thirty-two species of diurnal Lepidoptera, Mexico.

Dr. Jos. Wilson. Cocoons of *Ætias luna, Telea polyphemus, Platysamia cecropia*, etc.

H. F. Bassett. Sixty-two species of Galls.

G. Howard Parker. Four species of Galls, Phila.

Mollusks.—Rafael Arango. One species of marine, and sixteen of terrestrial shells of Cuba; four of the latter being types of new species described in the Academy's Proceedings. *Ctenopoma nodiferum*, Arango (type), Cuba.

Thomas Bland. Sixteen species of terrestrial shells from the West Indies; forty-one species of land shells, of which ten are author's types.

John Brazier. Forty-three specimens of shells, mostly marine, from Australia, New Caledonia, etc.; twenty-one species of Australian marine and terrestrial shells; twenty-two species of *Cypræa* and twelve speces of *Trivia*, mostly Australian; sixty-eight species of Australian marine shells.

J. J. Brown. *Cylindrella mabuja* and *C. Gruneri*, from Gonave, I. Haiti; *Corbula Caribæa*, d Orb., from Port-au-Prince, Haiti; *Columbella mutabile*, from Salt Lake, Matlin's Isl., Bahamas. *Unio Canadensis* Lea, Lake Ellen, Sheboygan Co., Wis.

Mrs. A. E. Bush. *Helix Diabloensis*, Cooper, and *H. aspersa*, Müll., from San José, Cal.

W. W. Calkins. *Conulus Upsonii*, Calkins, Winnebago Co., Ill.

Dr. J. C. Cox. Thirty-eight species of Marine shells, from Port Stephens, New South Wales.

Dr. W. H. De Camp. *Bythinella attenuata*, Grand Rapids, Mich.

John Ford. Twenty-one sections of shells, prepared by him. Very fine suite of *Asaphis coccinea*, from Elbow Key, Fla; four species of Mollusca, and a fine section of *Turbinella scolymus*, remarkable series of *Cypræa annulus.*

The late W. M. Gabb. Seventeen species of land and marine shells collected by him in San Domingo.

Dr. W. D. Hartman. Sixteen species of *Partula*, new to our collection.

P. R. Hoy. *Amnicola lustrica* and *A. Cincinnatiensis*, from deep water, Lake Michigan.

Mrs. M. A. Haldeman. A collection of fresh-water shells, part of the cabinet of the late Prof. Haldeman.

A. A. Hinkley. Ten species of marine shells, Cedar Keys, Fla.

Joseph Jeanes. Sixty-four species and varieties of marine shells, collected by Henry Hemphill on the coast of California; eighty-six species and varieties of marine, land and fresh-water shells from the West Coast of America.

F. R. Latchford. Sixty-two species terrestial and fluviatile mollusks, from Ontario, Canada; seven species of fresh-water shells from Canada.

Isaac Lea. Twenty-five species of marine and terrestrial shells, new to the collection.

Dr. E. Palmer. *Unio fuscatus*, Lea. *U. Jayanus*, Lea, *U. nigrinus*. Lea, *U. Blandingianus*, *U. amygdalum* and *W. Buckleyi*, from near Cassina River, Fla.

C. F. Parker. Twenty-eight species of marine shells, new to the collection.

John A. Ryder. *Arca pexata*, Say, Wood's Holl, Mass. and Cherry Stone Inlet, E. Shore of Virginia; *Xylotrya fimbriata*, Jeffreys, from St. Jerome's Creek, St. Mary Co , Md.

John H. Redfield. Thirty-one species of marine bivalve and land shells, new to the collection.

S. R. Roberts. Four specimens of *Cypræa*, and three other marine species.

R. E. C. Stearns. *Helix circumcarinata* Sterns, Stanislaus Co., Cal.

John Jay Smith. Abalone, the animal of *Haliotis*, eaten by the Californian Chinese.

Geo. W. Tryon, Jr. Eighty-two species of shells, new to the collection.

Dr. J. W. Velie. *Veronicella Floridana*, *Bulimus multiradiatus*, from Florida.

W. S. Vaux. Fifty species of shells, new to the collection; three species of land shells from Tunis, and one from Peru.

Joseph Willcox. *Unio luteolus*, Lam., Rideau Lake, Ontario.

F. M. Witter. *Amnicola Cincinnatiensis*, Anth.; *Unio Mississippiensis*, *U. Anodontoides*, *U. lachrymosus*, from Muscatine, Iowa.

Fossil Invertebrata.—J. W. Vogdes, U. S. A. Sixteen specimens of Miocene fossils from Virginia (Yorktown).

Angelo Heilprin. Thirty species from the Eocene of Clarke Co., Ala., eleven of which are types; nine species from the Eocene of Alabama and Florida, two of which are types.

Conchological Section of the Academy of Natural Sciences. Eighty-six species from the Carboniferous of Illinois, etc.; two hundred and twelve species, mainly from the Palæozoic of Illinois and Indiana.

F. W. Payne. Annelid tracks in Hudson River Slate.

A. W. Bailey. Specimen of *Fulgur adversarius* washed ashore from a submarine (?) Miocene bed, Atlantic City, N. J.

J. W. Pike. Thirty-five species of Carboniferous fossils from Mazon Creek, Grundy Co., Ill.

Dr. J. W. Hess. Fossil (?) from the Carboniferous of Vermilion, Ill.

F. R. Latchford. *Leda glacialis*, Champlain clays, Ottawa River, Eardley, Quebec.

F. L. Hess. *Eurypterus*, from the Carboniferous of Streator, Ill.

Dr. Jos. Wilson. Eighteen species of Crinoids, and two species of Mollusca from the Lower Carboniferous of Burlington, Iowa.

Ethnological and Miscellaneous.—Mrs. M. A. Haldeman. The Haldeman collection, consisting of many thousand specimens, ancient and modern, of spears and arrow-heads, axes, hammers, pounders, chisels, gauges, scrapers, knives, awls, borers, morters and pestles, mullers, net-sinkers, plummets, discoidal stones, sharpeners, pierced tablets, ceremonial weapons, pendants, sculpture, pipes, pottery, beads and other ornaments, shell-money, basket-work, bows and arrows, etc.

Dr. J. B. Brinton. Pestle, Cooper's Creek, Camden, N. J.

Harriet M. Harned. Indian relic, Oxford, Adams Co., Pa.

Otto W. Lowe. Stone axe (serpentine), Rock Island, Ill.

Plants.—Wm. M. Canby. Five hundred and fifty-two species of plants from Europe, S. Africa, Australia, Madeira and N. America.

Isaac C. Martindale. *Turnera aphrodisiaca* Ward, Mexico. *Mentzelia crocea* Kell., Calif. Trunk of *Quercus heterophylla* Mx., from Mt. Holly, N. J. Ellis' N. American Fungi, centuries V, VI and VIII.

Hugh D. Vail, Los Angeles, Calif., through Benj. N. Marsh. *Echinocactus Wislizeni* Engelm., Arizona. Twigs and acorns of *Quercus Wislizeni* var. *frutescens* Engelm., Cal. Twigs and acorns of *Q. dumosa* Nutt, Cal. Twigs and acorns of *Q. oblongifolia* Torr., Cal. Twigs and acorns of *Q. agrifolia* Nees, Cal. Flowering specimens of *Eucalyptus obliqua* (?), cult. in Cal.

Dr. J. H. Eckfeldt. One hundred species of Lichens from Northern U. States, mostly new to the collection, with catalogue; pod of *Hymenæa Courbaril*, from West Indies.

Thos. Meehan. *Corallorhiza Mertensiana* Bong., Washington Terr.; *Pachystima Canbyi* Gr., cult. from plants found at Wytheville, Va.; *Salisburia adiantifolia*, in fruit, from Wistar's garden, Germantown; *Arceuthobium occidentale* var. *abietinum* Engelm., Washoe Valley, Nevada.; *Phoradendron juniperinum* var. *Libocedri* Engelm., Washoe Valley, Nevada.

Isaac Burk. Fruit of *Chrysobalanus oblongifolius*, raised from seed by Mrs. Caroline Pennock, Delaware Co., Pa.; stem and root of *Aristolochia tomentosa* Sims, cultivated.

R. P. Smith and J. Jay Smith, of Germantown, Phila.; specimens of *Eucalyptus globulus* Lab., cult. in Cal.; *E. amygdalina*, cult, in Cal.; *E. rostrata*, cult. in Cal.

Chas. F. Parker. One hundred and seventy-five species of N. American plants from his herbarium, many of them new to the collection.

Two ladies, unknown. Collection of Marine Algæ, mostly from N. York Harbor, beautifully mounted and superbly bound; prepared for Charles M. Wheatley, by Saml. Lounsbury, of N. Y.

M. S. Bebb, Rockford, Ill. *Herbarium Salicum, Fasciculus primus*, being the first instalment of what is intended to be a full suite of the North American Willows, with such European forms as may aid in the understanding of their affinities With full printed tickets and manuscript notes, accompanied often with magnified drawings of the floral organs.

Dr. S. B. Buckley, Austin, Texas. *Clematis coccinea*, Englm.; *Berberis Swayzei* Buckl.; *Ampelopsis quinquefolia* Mx., var. *heptaphylla* Buckl.; *Styrax platinifolia* Engelm.; *Quercus Durandi* Buckl., series of specimens showing variations of foliage; *Quercus rubra L.*, var. *Texensis* Buckl.; all from Texas.

Prof. C. S. Sargent, Commissioner of Forestry Department of Tenth Census of U. S. Series of specimens of N. American woods, showing transverse and longitudinal sections and bark, all named at the Arnold Arboretum, Cambridge, and numbered to correspond with Prof. Sargent's Catalogue of Trees and Shrubs of N. America.

M. Carey Lea. A large collection of plants, consisting, first, of species collected by him in vicinity of Philadelphia; second, of species collected by Dr. Engelmann, Prof. Tuomey, and others, in Western and Southern States; third, of species of European plants, collected by Prof. Balfour, of Edinburgh.

Harriet M, Harned. Fungus (?).

J. P. H. Fruit of the great flowering Mimosa, Bombay.

Dr. Geo. Vasey, Agricultural Department, Washington, D. C. Twenty species of grasses, collected by the Wilkes Exploring Expedition, years 1838 to 1842.

C. Mohr, Mobile, Ala. Specimen of the rare *Darbya umbellata* Gray, staminate plant, near Cullmann, Ala.

Geo. E. Davenport, Boston, Mass. *Tænitis lanceolata* R. Br., a fern new to the U. S., from Old Rhodes Key, Florida.

Wm. P. Fodell. Double pear, preserved in alcohol, from garden in Kensington, Phila.

T. R. Peale, *Broussonetia papyrifera* Vant., in fruit, cultivated at Red Bank, N. J.; leaves of *Quercus heterophylla* Mx., different forms, Swedesboro, N. J.

F. W. Price. *Linaria vulgaris* Mœnch., peloric form and form without spur, West Chester, Pa.

F. L. Scribner. *Calamagrostis Howellii* Vasey, new species from Oregon; *Panicum capillare* L., variety from Phila.; *Eulalia Japonica* Trin., cultivated, native of Jamaica.

Prof. Asa Gray, Cambridge, Mass. A collection of one hundred and two species of plants, collected by Dr. J. E. T. Aitcheson, in the Kurum Valley, Afghanistan, in 1879.

J. M. Hutchings, Yosemite, Cal. Cone of *Pinus Lambertiana*, framed in wood of the *Sequoia gigantea*.

John H. Redfield. Forty-six species of plants from N. Mexico, Colorado and California, many of them new to the collection. Eleven species of ferns from California, Arizona and N. Mexico. new to the collection. Seventeen species of ferns and lycopods, collected in New Zealand by A. Craig.

Minerals.—C. S. Bement Corundum, Mineral Hill, Del. Co, Pa.; Hydrohematite, Chestnut Hill, Lanc. Co., Pa; Rutile and quartz, Graubünden; Pyrolusite, Ilmen, Thuringia; Pyrolusite (polianite), Bohemia; Ouvarovite, Wakefield, Can., Oxford, Can.; Pyrosmalite, Nordmarken, Sweden; Stilbite and apophyllite, Cape d'or, N. S.; Samarskite, Mitchell Co., N. C,; Apatite, Renfrew, Can.; Autunite, Cornwall, Eng.; Ankerite, Erzberg, Styria; Aragonite, colored by cobalt, Schwartz, Tyrol; Meteoric iron, Aug. Co., Va.; Blende, Ulster Co., N. Y.; Greenockite, Friedenville, Pa.; Arsenopyrite, Cornwall, Eng; Magnetite, Binnenthal; Rutile in pericline, Pfitsch, Tyrol; Limonite on quartz, Schneeberg, Sax.: Wollastonite, Lewis Co., N. Y.; Garnets, Phila., Jefferson Co., N. Y., and Kremnitz, Hungary; Axinite, near Bethlehem, Pa.; Felspar, Silesia, Austria; Datholite, Isle Royal, L. S.; Serpentine, Grand Cal. Is., Can.; Serpentine pseud., after Monticellite, Monzoni, Tyrol; Titanite, Renfrew, Can.; Wolframite pseud., after Scheelite, Trumbull, Conn.; Barite (cawk), Derbyshire, Eng.; Blue Calcite, Rossie, N. Y.; Azurite, Moldaira; Orpiment, Felsöbánya, Hungary; Petzite, Col.; Spinel and Idocrase, Vesuvius; Manganite, Sweden; Limonite, Chestnut Hill, Lanc. Co., Pa., and Superior Mine, Mich.; Cookeite. Mt. Mica, Me.; Wollastonite, Vesuvius; Pyroxene, Renfrew, Can.; Tourmaline (nine crystals), Pierpont, St. Lawrence Co., N. Y.; Titanite, Medels, Surry and Ontario, Can.; Pinite, Schwartzenbach, Bavaria; Pyromorphite, Cumberland, Eng.; Brochantite, Sonnenberg; Calcite, St. Louis, Mo.; Concretions of Siliceous carb. of lime, Easton, Pa.; Concretions (very beautiful), head of Conn. River, N. Y.; Thenardite, Tarapaca, S. A.; Zircon (twin crystal), Renfrew, Can.; Apatite, Renfrew, Can.; Scapolite, St. Lawrence Co., N. Y.: Sphene and wollastonite, Lewis Co, N. Y.; Millerite, Antwerp, N. Y.; Pyroxene, Can.; Zircon, Grenoble, Can.; Muscovite, Portland, Conn.; Zircon, with apatite, Renfrew, Can; Columbite, Middletown, Conn., and Portland, Conn.; Campylite, Cumberland, Eng.; Specific gravity apparatus of Jolly.

Wm. S. Vaux. Fine specimens of Danburite, Russell, St. Lawrence Co., N. Y.; Fine specimen of apatite in calcite, Canada; Twin Zircon, Renfrew, Canada; Native gold in quartz. Gaston Co., N. C.; Native copper, Australia; Native sulphur, Napa Co., Cal.; Byssolite, Chester Co; Chrysocolla, Berks Co. Pa.; Prehinite, Charleston, Mass.; Haüynite, Laacher See, Prussia; Andalusite, Tyrol; Stilbite, Reading, Pa.; Dolomite (gurhofite). Sussex Co., N. J.; Siderite, Scranton, Pa.; Aragonite with Chalcopyrite and magnetite, Berks Co., Pa.; Cerussite, Chester Co., Pa.; Malachite, Berks Co., Pa.; Azurite and Chrysocolla, Lebanon Co., Pa.; Galenite, coated with Pyromorphite, Stolzite with Wulfenite, Pyromorphite and galenite, all from Wheatley Mine, Chester Co., Pa.; Pebble of anthracite, Tamaqua, Pa.

Mrs. Hugh Davids Octahedrite (Wiserine), Binnenthal, Switzerland; Wolframite, Germany.

J. B. Gicker. Actinolite, washed from decomposed rock, Chestnut Hill, Delaware.

Jos. P. Hazard. Anthracite, Wales; Metallic tin, Cornwall; Limestone, Himalaya Mts.

A. Meyer. Twenty-nine specimens of fossil iron ores and associated rocks, Lycoming Co., Pa.

Mr. Fiss. Beryl (very large crystal), Amelia Co., Va.

S. Tyson. Basinäsite and Tysonite, Colorado.

Jos. Willcox. Corundum; ditto, coated with damourite; ditto, coated with margarite, Iredell Co., N. C.

Geo. Woener. Impure limonite; bituminous shale, Pa.

E. S. Reinhold. Alunogen, Mahanoy City, Pa.

A. H. Smith. Flattened garnet in muscovite, Del. Co., Pa.; Boulders dredged from bed of Del. River, below Chester, Pa.; Gneiss, Schooner Ledge, Del. River.

Peter Walker. Dendritic manganese in sandstone, conglomerate, etc., Wayne Co., Pa.

J. W. Pike. Limonite nodule, Newfield, N. J.

S. Ball. Hematite in green quartz; siderite; rhodonite; all from near Windsor, Me.

G. Howard Parker. Aquacreptite; autunite; menaccanite; apatite; all from vicinity of Phila.; Native tellurium, Boulder Co., Col.

Theo. D. Rand. Nine specimens of rocks, vicinity of Phila.; Gypsum (artificial), from a salt-pan; Quartz in mica, Amelia Co., Va.; Stalactite, mountain cork, and nine specimens of rocks, Del. Co., Pa.

W. P. Adams. Dolomite, Harford Co., Md.

E. M. Bye. Magnetite, enstatite, talc with altered actinolite, serpentine, picrolite; all from Harford Co., Md.

H. C. Lewis. Halotrichite, East Park, Phila.; Halotrichite, melanterite and sulphatite (efflorescence on marl), West Jersey marl pits; Fahlunite, Germantown, Phila.; Recent rain prints, marl pits, Pemberton, N. J.

W. W. Jefferis. Aragonite, pyrite, Chester Co., Pa.; Garnet, Del. Co., Pa.; Epidote, Baltimore Md.; Calcite, Wisconsin; Quartz, Mill Creek Hundred, Del.

C. M. Wheatley. Chalcocite, pseudomorph after wood, Little Whitia River, Archer Co., Tex.

W. H. H. Bates. Pyrrhotite, China, Me.

J. M. Hartmann. "Salamander," or slag, from blast furnace, Oxford, N. J.

Mrs. M. A. Haldeman. Spinel ruby, Ceylon.

Dr. Kreizer. Black marble, Myerstown, Lebanon Co., Pa.

In exchange. Vesuvianite, Templeton, Can.; White Garnet, Hull, Can.; Apatite (twin crystal), Renfrew, Can.; Smithsonite, Sultanella, Spain; Aragonite, Fort Collins, Col.

Carpenter, Henzey & Co. Chemicals for use of Professor of Mineralogy.